

E-00000C-11-0328

OPEN MEETING AGENDA ITEM



0000158941

ARIZONA CORPORATION COMMISSION

UTILITY COMPLAINT FORM

Investigator: Richard Martinez

Phone:

Fax:

Priority: Respond Within Five Days

Opinion No. 2014 - 120068

Date: 12/12/2014

Complaint Description: 01H Billing - Smart Meter  
08A Rate Case Items - Opposed

First:

Last:

ORIGINAL

Complaint By: Shelley

Whitelaw

Account Name: Shelley Whitelaw

Home: (000) 000-0000

Street: na

Work:

City: Tucson

CBR:

State: AZ Zip: 85701

is: E-Mail

Utility Company: Arizona Public Service Company

Division: Electric

Arizona Corporation Commission

Contact Name: For assignment

DOCKETED

Contact Phone:

Nature of Complaint:

DEC 17 2014

(Docket No. E-00000C-11-0328)

DOCKETED BY

RECEIVED  
AZ CORP COMMISSION  
DOCKET CONTROL  
214 DEC 17 PM 3 23

Dear Arizona Corporation Commissioners,

Re: 32. In the Matter of the Generic Investigation of Smart Meters (Docket No. E-00000C-11-0328) - Commission discussion, consideration and possible vote concerning the Arizona Department of Health Service's October 31, 2014 Report on Public Health Evaluation of Radio Frequency Exposure from Electronic Meters.

I would like to submit for your review the attached documents including filed evidence of Curtis Bennet ( exhibit C19-8) with regard to BC Utilities Commission on the issue of smart meters. This evidence given by Curtis Bennett, Chief Science Officer, Interprovincial Journeyman Electrician (Red Seal), Building Construction Engineering Technologist and Adjunct Faculty for IHF & GEDI who has 33 year advanced thermography background, should not be ignored.

Mr. Curtis advised the BC Commission of "evidence that substantiates the missing science linking the frequencies to adverse health effects and additional problems for the Fortis BC application on a wireless smart grid" and Mr. Curtis further stated that "the frequencies are now illegal as applied."

The evidence Mr. Curtis provides is applicable to Arizona and the installation of Smart Meter's.

Dr. Martin Blank provided important testimony this morning and documentation with regard to the effects of low frequency EMF and affect on cells etc. and the implication and association with cancer and other health issues. Somehow this evidence did not appear to impress the Commissioners in the morning session since there were no questions with regard to his scientific evidence.

Since the Commissioner was interested in Dr. Blank's opinion with respect to WiFi, I would like to bring attention to the attached declaration by Curtis Bennet with regard to WiFi in schools.

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I ask the Commission to keep this docket open and allow further investigation and review for this important issue.

Shelley Whitelaw

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[www.thermoguy.com/blog\\_curtis@thermoguy.com](http://www.thermoguy.com/blog_curtis@thermoguy.com)

January 24th , 2013

Ms. Erica Hamilton,

Commission Secretary,

British Columbia Utilities Commission.

Re: Intervener Filed Evidence for West Kootenay Concerned Citizens

Dear Ms. Hamilton;

The information contained in today's submission and Document C19-4, C19-6 is the filed evidence for the WKCC. This evidence substantiates the missing science linking the frequencies to adverse health effects and additional problems for the Fortis BC application on a wireless smart grid. The frequencies are now illegal as applied.

Alex Atamanenko Document C1-3 supported a suspension of proceedings or an outright denial of the Fortis BC application. Alex confirmed as a Member of Parliament that Health Canada has committed to reviewing Safety Code 6 as well as committing to establishing a formal, independent Expert Panel. The appointment of an Expert Panel of the Royal Society of Canada has been selected as the means for obtaining independent expert assessment of the review of Safety Code 6. The Expert Panel report and recommendations is anticipated to be released in 2013. Safety Code 6 will be updated.

Fortis response in B-13 dismissed the review information in C1-3. Fortis states that Safety Code 6 is presently subject to review and that there is no basis to assume that any revisions of the Code would be recommended or, if recommended, significant.

Safety Code 6 admits to missing science linking the frequencies to adverse health effects and the Code will be changed if deemed necessary once science is submitted. Although science is missing the Code states "the predominant health effect to be avoided is the unintentional stimulation of tissue as is the heat effect." Intentional stimulation of tissue is medical imaging in a controlled environment in an intended position of use.

Fortis is not accurate by stating there is no basis for revisions in Safety Code 6 or their significance.

September 14th 2010, the errors or omissions in Safety Code 6 linking the frequencies to adverse health effects was reported to Health Canada. I was the reporting government certified professional.

October 26th, 2010 the errors or omissions in Safety Code 6 linking the frequencies to adverse health effects was reported by expert witness at the request of Canadian Parliament's Standing Committee on Health. I was the reporting professional providing expert witness.

December 2010 the Standing Committee on Health's report included the NDP's Complimentary Report included the errors or omissions reported in Safety Code 6 being thoroughly investigated by Health Canada given my credentials. Refer to page 33 of this report. [Http://www.thermoguy.com/pdfs/Reportof-The-Standing-Committee-on-Health.pdf](http://www.thermoguy.com/pdfs/Reportof-The-Standing-Committee-on-Health.pdf)

January 2011 the dangers of the wireless frequencies was lectured in medical education for education credits required for ongoing medical licensing. I lectured the missing mechanisms linking the frequencies to adverse health effects in that program.

[Http://www.thermoguy.com/pdfs/Medical\\_Education\\_Letter\\_on\\_Wireless\\_Lectured\\_in\\_Medical\\_Academia.pdf](http://www.thermoguy.com/pdfs/Medical_Education_Letter_on_Wireless_Lectured_in_Medical_Academia.pdf)

The basis for revisions and the significance is that smart meters were only considered as an end use device. Relays, smart meter routers, antennas radiating large geographical areas were left out of safety standards. Humans were treated as heating tissue and bio electricity, vulnerability as well as millions(billions of frequencies) were left out of a frequency equation. Lower power densities is limited electrical information, it still means you are under load.

As soon as the information above is incorporated in frequency exposure, it substantiates causality, biological plausibility and reproducibility missing in Safety Code 6.(Fortis Exhibit B-1, Appendix B-6,

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page 9)

The incorporation of the errors or omissions in Safety Code 6 links the frequencies to adverse health effects and substantiates reporting on health effects. The Royal Society of Canada didn't have this information for their original consultation on Safety Code 6. Incorporating the errors and omissions in the revision will make the wireless smart meters illegal as applied because the frequencies will stimulate tissue. Land use will change as well and towers will not meet the requirements for licensing by Industry Canada.

The following 3 page document is a letter for Peachland City Council on BC Hydro's smart meter program but is applicable to all municipalities. The document shows illustrations of the archaic science used around the world for human exposure and a diagram of BC Hydro's smart grid showing blanket coverage of the frequencies. That diagram clearly demonstrates how these frequencies would go through people, buildings, ecosystems and infrastructure. That peer reviewed science substantiating that interaction is basic electricity.

Health Canada isn't the only country revising the Specific Absorption Rate which is used for testing exposure limits. The United States FCC uses the same science standards as Safety Code 6. Congressman Dennis Kucinich sponsored Bill H.R. 6358 on wireless exposure(draft bill attached). The bill was supported by the American Academy of Pediatrics(60,000) because of the vulnerability of children and pregnant women.

[http://www.thermoguy.com/pdfs/American\\_Academy\\_of\\_Pediatrics\\_Supports\\_Child\\_Cell\\_Phone\\_Protection.pdf](http://www.thermoguy.com/pdfs/American_Academy_of_Pediatrics_Supports_Child_Cell_Phone_Protection.pdf)

The Fortis Application for wireless smart meters should be denied because Safety Code 6 will change when it incorporates the errors and omissions. The least that should happen is a suspension of the wireless application for smart meters. Evidence will show the meter program will not meet the objectives of the utility or the Provincial Government's Energy Plan.

Sincerely,

Curtis Bennett

Chief Science Officer

Interprovincial Journeyman Electrician(Red Seal)

Building Construction Engineering Technologist

Adjunct Faculty for IHF & GED

33 Year Advanced Thermography Background

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January 23rd, 2013

Peachland City Council

5806 Beach Ave,

Peachland, B.C.

Att: Mayor & City Council

Re: BC Hydro's Wireless Smart Meter Program is Illegal and Violating Municipal Land Use

Dear Mayor & Council:

I was asked by concerned residents to represent the missing science in Health Canada's Safety Code 6 that link the frequencies to adverse health effects. Governments, BC Hydro, BC Utilities Commission, Industry Canada and the Canadian Wireless Telecommunications Association all have to comply with Safety Code 6. When it comes to towers, compliance with Safety Code 6 is mandatory and a condition of license by Industry Canada. Safety Code 6 uses the same science standards as the FCC and other international governing bodies.

Safety Code 6 determines the limits of human exposure to radio frequency EMFs and even though science standards are based on decades of scientific literature, safety standards admit science is missing linking the frequencies to adverse health effects. Missing science doesn't change the fact Safety Code 6 states "the predominant health effect to be avoided is the

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unintentional stimulation of tissue as is the heat effect". Intentional stimulation of tissue is medical imaging in a controlled environment in an intended position of use.

This picture is the Specific Absorption Rate used to determine exposure limits. The red arrow shows the position of the cell phone and the white arrow highlights the hole in the test model where liquid that simulates tissue is poured. The black wire inside the head is the temperature probe measuring for heat effect. This is the science used globally and because smart meters or wireless computers aren't held against the head like a cell phone, 24/7 exposure is considered safe for everyone including children and pregnant women.

The missing mechanisms linking the frequencies to health effects was reported by expert witness at the request of Canadian Parliaments Standing Committee and changed the safety of wireless applications. The Specific Absorption Rate didn't include smart meter routers, relays, tower antennas and other wireless infrastructure radiating large geographical areas to communicate with wireless devices. Health effects didn't incorporate the bio electricity of humans, their vulnerability and left out millions of frequencies in a frequency equation. When you incorporate the errors or omissions in safety, you have causality, biological plausibility and reproducibility which links the frequencies to adverse health effects.

Tissue is being stimulated and can cause nerve and muscle depolarization. That depolarization by an EMF trigger affects the nervous system, hormonal system and immune systems. The frequencies hitting people from head to toe will have health effects and the dangers of the frequencies is now lectured in medical education for education credits required for ongoing medical licensing. The education program is applicable in North America and wireless exposure needs to be considered in medical diagnosis.

### Land Use Issues

I have seen and heard frustration from municipalities on wireless deployment. Municipalities have been told they have no jurisdiction in smart meter deployment or tower construction. The BC Government has mandated the meter program for their Energy Plan and Industry Canada has jurisdiction on tower installation for the wireless industry.

Here is my submission to the BC Utilities Commission on the Fortis BC application supporting a suspension of the utility's application to install wireless smart meters. Wireless smart meters won't address or assist the province's Energy Plan plus the frequencies are illegal as applied. [Http://www.bcuc.com/Documents/Proceedings/2012/DOC\\_32604\\_C19-6\\_WKCC-Submission-RDCK-Nelson-Creston\\_Suspension.pdf](http://www.bcuc.com/Documents/Proceedings/2012/DOC_32604_C19-6_WKCC-Submission-RDCK-Nelson-Creston_Suspension.pdf)

If I wanted to build a gun range on a lot in your municipality, my application would be denied. The damage to buildings, infrastructure, danger to people, etc would be illegal and bring liabilities. Tower construction requires the same consideration and is the municipality's jurisdiction. The tower construction and land use isn't addressing or considering the number of antennas, the direction and coverage areas of the EMF guns hitting buildings, infrastructure, businesses, people, pets, ecosystems, etc. Texas utility Oncor admitted through their lawyer smart meter routers covered an average of 5 sq. Miles, and the collectors 125 sq. Miles. Fortis BC as an example plans to radiate 17,000 sq. Km to communicate with wireless smart meters without considering what the EMFs hit or interact with. Those frequencies will be illegal. There are real electrical reasons we don't blast frequencies around with reckless abandon. You have to consider what the EMFs can interact with. This blanket coverage with RF EMFs that go through buildings causes real problems including to the buildings violating Part 4 of the BC Building Code under vibration. 900 MHz frequencies going through structures and fire separations will cause molecules of material to polarize(change direction 180 degrees) 1.8 billion times per second. The higher the power density, the more intense these molecular earthquakes. Here is what that looks like at 60 Hz in an insured industrial inspection. [Http://www.thermoguy.com/pdfs/Electrical\\_Frequency\\_Problem\\_in\\_Lumbermill.pdf](http://www.thermoguy.com/pdfs/Electrical_Frequency_Problem_in_Lumbermill.pdf) It is well known how UV affects exposed materials. These are subtle but dangerous frequencies going through materials. Andrew Michrowski(PHd) has done extensive work on

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accelerated corrosion of infrastructure and, making it more dangerous, is inducing electrical charges in volatile areas that could create fires or explosions.

[Http://media.withtank.com/42391c31ef.pdf](http://media.withtank.com/42391c31ef.pdf)

Here is a diagram of BC Hydro smart grid showing what they didn't incorporate into safety.

Pacemaker recipients are told to stay out of electromagnetic fields: however, the area coverage will take the EMFs right into their homes. That is separate of BC Hydro using unqualified installers with a few hours training to swap electrical meters. Changing a meter under load on a meter base that has never been serviced is very dangerous and further compromises building owners. BC Hydro blames home owners for the fires because the homeowner owns the meter base when the electrical reality is the meter swap caused by the fire.

[Http://www.thermoguy.com/pdfs/Smart\\_Meter\\_Fires\\_and\\_Installaton.pdf](http://www.thermoguy.com/pdfs/Smart_Meter_Fires_and_Installaton.pdf)

Peachland and other municipalities are going to be absorbing costs and liabilities that are not theirs. As well BC Hydro isn't incorporating health, building or infrastructure costs and haven't considered the agricultural, forestry, groundwater, fish spawning, economic or ecosystem damage. The frequencies are illegal as applied and the peer reviewed science substantiating that is electricity, engineering, medical education.

Health Canada is presently revising Safety Code 6 and has retained the Royal Society as an independent body. The United States have a draft bill H.R. 6358 where congress members are asking for a revision of the scientifically ridiculous Specific Absorption Rate test.

Your residents have valid concerns for themselves and their building investment. The complete science wasn't represented to municipalities. My opinion is not singular. The margin of error is zero. The peer reviewed science qualifying the EMF interactions is called electricity. To generate electricity requires an electromagnetic field (EMF) and a conductor. In BC Hydro's as well as other utilities application, they are blanketing areas with EMFs and human animal, vegetable/mineral kingdom - almost everything are the conductors.

Our electrical grid is 60 Hz frequencies so they can communicate with 60 Hz appliances and devices. There radio frequencies at 900 million Hz are not electrically compatible with any biological frequencies they are interacting with.

Sincerely,

Curtis Bennett  
Chief Science Officer  
Interprovincial Journeyman Electrician (Red Seal)  
Building Construction Engineering Technologist  
Adjunct Faculty for IHF & GEDI  
33 Year Advanced Thermography Background  
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112TH CONGRESS  
2D SESSION

H. R. \_\_\_\_\_

To examine, label, and communicate adverse human biological effects associated with exposure to electromagnetic fields from cell phones and other wireless devices, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

Mr. KUCINICH introduced the following bill; which was referred to the Committee on \_\_\_\_\_

A BILL

To examine, label, and communicate adverse human biological effects associated with exposure to electromagnetic

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fields from cell phones and other wireless devices, and  
for other purposes.

1 Be it enacted by the Senate and House of Representa2  
tives of the United States of America in Congress assembled,

3 SECTION 1. SHORT TITLE.

4 This Act may be cited as the "Cell Phone Right to

5 Know Act".

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1 SEC. 2. RESEARCH PROGRAM.

2 (a) IN GENERAL.—The Director and the Adminis3  
trator, acting jointly, shall conduct or support a com4  
prehensive research program to determine whether expo5  
sure to electromagnetic fields from mobile communication  
6 devices causes adverse biological effects in humans, includ7  
ing especially vulnerable subpopulations such as children,  
8 pregnant women, those with compromised immune sys9  
tems and hypersensitivity reactions, men and women of  
10 reproductive age, and the elderly.

11 (b) SPECIFIC REQUIREMENTS.—With respect to the  
12 possible adverse biological effects in humans from expo13  
sure to electromagnetic fields from mobile communication  
14 devices, the program under subsection (a) shall provide  
15 for—

16 (1) the collection, compilation, publication, and  
17 dissemination of scientifically valid information;

18 (2) research on mechanisms by which such elec19  
tromagnetic fields interact with human biological

20 systems; and

21 (3) epidemiological research.

22 © DISSEMINATION.—

23 (1) PUBLIC ACCESSIBILITY.—The Director and  
24 the Administrator, acting jointly, shall ensure that  
25 information and research results under such pro-

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1 gram are regularly made widely available to the gen2  
eral public.

3 (2) REPORTS TO CONGRESS.—On the date that  
4 is 4 years after the date of enactment of this Act  
5 and on the date that is 8 years after the date of en6  
actment of this Act, the Director and the Adminis7  
trator, acting jointly, shall transmit to Congress a  
8 report containing the findings and conclusions of the  
9 research program under subsection (a).

10 (d) WORKSHOP.—

11 (1) IN GENERAL.—The Director and the Ad12  
ministrator, acting jointly, shall convene a workshop  
13 to assist in the development of a plan for the re14  
search to be carried out under such program.

15 (2) PARTICIPANTS.—Participants in the work16  
shop shall include government employees, represent17  
atives of public interest groups, and representatives  
18 from the scientific community with expertise relevant

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19 to health issues or other adverse biological effects in  
20 humans potentially associated with the exposure to  
21 electromagnetic fields from mobile communication  
22 devices.

23 € CONFLICTS OF INTEREST.—

24 (1) IN GENERAL.—The Director and the Ad25  
ministrator—

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1 (A) may not delegate any responsibility  
2 under this section to an officer or employee  
3 with any significant conflict of interest relative  
4 to research or activities under this section;  
5 (B) shall require, as a condition on receipt  
6 of assistance for research under this section, an  
7 assurance that any person given responsibility  
8 to carry out such research will not have any sig9  
nificant conflict of interest relative to such re10  
search; and

11 © may not, with respect to any such per12  
son, waive subparagraph (A) or (B) in any case  
13 or grant an exemption under section 208(b) of  
14 title 18, United States Code.

15 (2) RELATION TO OTHER PROVISIONS.—The re16  
quirements of paragraph (1) are in addition to the  
17 prohibition in section 208(a) of title 18, United  
18 States Code, and any other prohibition or require19  
ment in Federal law relating to conflicts of interest.

20 (3) STATUS OF RESEARCHERS.—Any person  
21 who is not a Federal Government employee who per22  
forms research under the program in subsection (a)  
23 shall be considered a special government employee  
24 for the purpose of conflict of interest rules, including  
25 section 208 of title 18, United States Code.

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1 (f) CLARIFICATION OF RESEARCHER ACCESS TO IN2  
FORMATION.—

3 (1) IN GENERAL.—Not later than 180 days  
4 after the date of enactment of this Act, the Federal  
5 Communications Commission shall promulgate regu6  
lations to allow a subscriber to access personally or  
7 to give consent to allow researchers with institu8  
tional review board approval to access specific usage  
9 data required to investigate the link between electro10  
magnetic radiation exposure and potential adverse  
11 biological effects in humans.

12 (2) TIME FOR REPLY.—Such regulations shall  
13 provide that a company regulated by the Commis14  
sion from whom a subscriber or a researcher, with  
15 the consent of an individual subscriber, requests  
16 data in accordance with such regulations shall—  
17 (A) respond to and provide such data with18  
in 30 business days; or

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19 (B) be fined not more than \$10,000 per  
20 account per day following such 30-day period in  
21 accordance with the Communications Act of  
22 1934.  
23 (3) DATA PROVIDED.—The regulations shall  
24 provide that, of the data described in paragraph (1),  
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1 all relevant data shall be accessible, including the  
2 following:

3 (A) With respect to the individual sub4  
scriber, usage data including the following:

5 (i) The date and time the call or data  
6 session began and ended.

7 (ii) The outgoing and incoming phone  
8 number.

9 (iii) The carrier modulation, such as  
10 GSM, CDMA, UMTS, W-CDMA, or LTE.

11 (iv) The frequency band.

12 (v) The subscriber location.

13 (vi) The number of base stations used.

14 (vii) The amount and rate of data

15 transmitted and received.

16 (viii) The form of data usage, such as  
17 text messaging or other data transmission.

18 (B) With respect to the base stations used

19 by each individual subscriber:

20 (i) All base stations used in the call or  
21 data session.

22 (ii) The base station identifiers.

23 (iii) The date of installation.

24 (iv) The maximum, the average, the  
25 total, and the effective radiated power.  
\*\*\*\*\*

1 (v) The frequencies and modulation.

2 (g) AUTHORIZATION OF APPROPRIATIONS.—There  
3 are authorized to be appropriated to the Director and the  
4 Administrator a total of \$50,000,000 per year for the first  
5 7 fiscal years that begin after the date of the enactment  
6 of this Act to carry out this section.

7 SEC. 3. MAXIMUM EXPOSURE.

8 (a) ESTABLISHMENT.—

9 (1) IN GENERAL.—The Administrator shall pro10  
mulgate regulations establishing maximum exposure  
11 level goals and maximum exposure levels for expo12  
sure to electromagnetic fields generated by mobile  
13 communication devices.

14 (2) GOALS AND LEVELS.—

15 (A) MAXIMUM EXPOSURE LEVEL GOAL.—A  
16 maximum exposure level goal established under  
17 paragraph (1) shall be set at the level—

18 (i) at which no known or anticipated  
19 adverse human biological effects occur; and



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20 (ii) which allows an adequate margin  
21 of safety.

22 (B) MAXIMUM EXPOSURE LEVEL.—

23 (i) IN GENERAL.—A maximum expo24  
sure level established under paragraph (1)

25 shall specify a maximum exposure level

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1 which is as close to the maximum exposure

2 level goal as feasible.

3 (ii) SPECIFICATION.—In deriving the

4 maximum exposure levels and maximum

5 exposure level goals, the Administrator

6 may not rely on any human behavior modi7

fication, including an expectation of hold8

ing the mobile communication device a

9 specified distance away from the head or

10 body.

11 (3) REPRODUCIBILITY.—In promulgating regu12

lations under paragraph (1), the Administrator shall

13 ensure that any method of measurement of a max14

imum exposure level goal or a maximum exposure

15 level is reproducible by an independent third party.

16 (4) INITIAL GOAL AND LEVEL; PERIODIC RE17

VIEW.—Not later than 2 years after the date of en18

actment of this Act, the Administrator shall promul19

gate final regulations under paragraph (1) estab20

lishing initial maximum exposure level goals and

21 maximum exposure levels. Not later than every 2

22 years thereafter, the Administrator shall—

23 (A) review each maximum exposure level

24 goal and maximum exposure level established

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1 under paragraph (1), taking into consideration

2 advances in science and technology;

3 (B) publish a determination on whether

4 the goal or level should be revised under such

5 paragraph; and

6 © as appropriate, revise the goal or level.

7 (5) CONSIDERATIONS.—In promulgating regu8

lations under paragraph (1), the Administrator shall

9 consider and account for—

10 (A) whether any research relied upon by

11 the Administrator was funded by an entity

12 whose profitability could be affected by the out13

come;

14 (B) health outcomes, biological effects, and

15 mechanisms, including—

16 (i) sleep disturbance;

17 (ii) depression;

18 (iii) tremors;

19 (iv) headache;

20 (v) dizziness;

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21 (vi) fatigue;  
22 (vii) irritability;  
23 (viii) loss of memory;  
24 (ix) loss of appetite;  
25 (x) nausea;

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1 (xi) visual disturbances;  
2 (xii) hearing loss and tinnitus;  
3 (xiii) increases in stress proteins;  
4 (xiv) immune systems alterations;  
5 (xv) cancers and tumors, including  
6 brain tumors and acoustic neuromas, pa7  
rotid gland tumors, eye cancer, testicular  
8 cancer, breast cancer, head or neck mela9  
noma, lymphoma, and leukemia;  
10 (xvi) reproductive system effects;  
11 (xvii) DNA breaks;  
12 (xviii) blood brain barrier leakage; and  
13 (xix) free radical formation;  
14 © concerns raised by the Federal Radio  
15 Frequency Interagency Working Group in its  
16 letter dated June 17, 1999, and its subsequent  
17 letter dated July 16, 2003, about the existing  
18 exposure standard;  
19 (D) vulnerable subpopulations, including  
20 children, pregnant women, those with com21  
promised immune systems and hypersensitivity  
22 reactions, men and women of reproductive age,  
23 and the elderly;  
24 € non-thermal mechanisms of effects, in  
25 cluding low-intensity modulated fields;

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1 (F) multiple exposures in indoor and out2  
door environments;  
3 (G) measurements of exposure and dose  
4 including specific absorption rate;  
5 (H) exposure to extremely low frequency  
6 and static electromagnetic fields;  
7 (I) dose-response and non-dose-response  
8 analytic models;  
9 (J) the practice of averaging exposures  
10 over a period of time which masks peak expo11  
sures that may cause adverse biological effects;  
12 (K) individual behaviors that lengthen, in13  
tensify, or otherwise modify exposure in a way  
14 that increases exposure or spreads exposure to  
15 different parts of the body;  
16 (L) the rapidly changing nature of usage  
17 of electromagnetic field emitting products, in18  
cluding trends towards products that increase  
19 duration of exposure, such as a wearable mobile  
20 communication device;

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21 (M) effects of low intensity radiofrequency  
22 electromagnetic fields;  
23 (N) effects of modulation of signal, pulse,  
24 frequency, amplitude, and power;

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1 (O) effects of different signaling character2  
istics, such as phased array exposure;  
3 (P) effects of changes reflected in  
4 electroencephalographies that could lead to sei5  
zures or mood alterations;  
6 (Q) effects of exposure to multiple fre7  
quencies of radiofrequency electromagnetic  
8 fields;  
9 @ effects of extremely low frequency10  
modulated electromagnetic fields; and  
11 (S) effects of chronic exposure to radio12  
frequency electromagnetic fields.  
13 (6) INTERAGENCY ADVISORY COMMITTEE.—The  
14 Administrator shall—  
15 (A) establish an interagency advisory com16  
mittee of individuals who are officers or employ17  
ees of Federal departments and agencies; and  
18 (B) consult with the committee in estab19  
lishing maximum exposure level goals and max20  
imum exposure levels under paragraph (1), in21  
cluding with respect to selecting a unit of meas22  
urement.  
23 (b) IMPLEMENTATION BY FCC.—The Federal Com24  
munications Commission shall implement and enforce the  
25 standards adopted under subsection (a) as if the standards

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1 were promulgated by the Commission under the authority  
2 of the Communications Act of 1934.  
3 © CONFLICTS OF INTEREST.—  
4 (1) PROHIBITION.—An officer or employee of  
5 the Federal Government may not participate in es6  
tablishing a maximum exposure level goal or max7  
imum exposure level under subsection (a), may not  
8 serve as a member of the interagency advisory com9  
mittee established under subsection (a)(6), and may  
10 not participate personally and substantially in the  
11 implementation or enforcement of a maximum expo12  
sure level goal or maximum exposure level under  
13 subsection (b), if such person is in violation of sec14  
tion 208 of title 18, United States Code.  
15 (2) PENALTY.—A violation of paragraph (1)  
16 shall be treated as a violation of section 208(a) of  
17 title 18, United States Code.  
18 (3) NO EXEMPTIONS.—An exemption under  
19 section 208(b) of title 18, United States Code, may  
20 not be granted to an officer or employee described  
21 in paragraph (1).

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22 (4) RELATION TO OTHER PROVISIONS.—The

23 prohibition of paragraph (1) is in addition to the

24 prohibition in section 208(a) of title 18, United

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1 States Code, and any other prohibition or require2

ment in Federal law relating to conflicts of interest.

3 SEC. 4. EXPOSURE STANDARD LABELING.

4 The Commissioner shall promulgate regulations to

5 provide for labeling of mobile communication devices as

6 set forth in this section. Such labeling shall include the

7 exposure rating of the device, the maximum allowable ex8

posure level, and the maximum allowable exposure goal—

9 (1) in a manner that is readily accessible upon

10 regular use of the device;

11 (2) at any point of sale in a store in the United

12 States;

13 (3) at any point of sale on a Web site engaging

14 in commerce in the United States; and

15 (4) on the outside packaging and in the instruc16

tion manual.

17 SEC. 5. REINVIGORATING AMERICAN RESEARCH IN ELEC18

TROMAGNETIC RADIATION AND HEALTH.

19 (a) IN GENERAL.—The Secretary shall expand and

20 intensify the activities of the Department of Health and

21 Human Services to train, and support the training of, sci22

entists in the field of examining the relationship between

23 electromagnetic fields and human health. In carrying out

24 this subsection, the Secretary shall—

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1 (1) increase the number and size of grants to

2 institutions for such training; and

3 (2) increase the number of career development

4 awards for such training for health professionals

5 who intend to build careers in pediatric basic and

6 clinical research, including pediatric pharmacological

7 research.

8 (b) NATIONAL RESEARCH SERVICE AWARDS.—Sec9

tion 487 of the Public Health Service Act (42 U.S.C. 288;

10 relating to Ruth L. Kirschstein National Research Service

11 Awards) is amended—

12 (1) in subsection (a)(1)(A)—

13 (A) in clause (iii), by striking “and” at the

14 end;

15 (B) in clause (iv), by striking the period at

16 the end and inserting “; and”; and

17 © by adding at the end the following:

18 “(v) research in the field of examining the

19 relationship between electromagnetic fields and

20 human health at public entities and private

21 nonprofit academic institutions.”; and

22 (2) by adding at the end the following:

23 “(d) There are authorized to be appropriated

24 \$15,000,000 for fiscal year 2013 and each subsequent fis25

# ARIZONA CORPORATION COMMISSION

## UTILITY COMPLAINT FORM

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cal year for research under subsection (a)(1)(A)(v). The

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1 amounts authorized to be appropriated under the pre2  
ceding sentence are in addition to any other amounts au3  
thorized to be appropriated to carry out this section.”.

4 © LOAN REPAYMENT PROGRAM.—Part G of title IV  
5 of the Public Health Service Act (42 U.S.C. 288 et seq.)  
6 is amended—

7 (1) by redesignating the second section 487F

8 (42 U.S.C. 288-6) as section 487G; and

9 (2) by inserting after section 487G, as so redes10  
ignated, the following:

11 “SEC. 487H. LOAN REPAYMENT PROGRAM FOR RESEARCH12  
ERS IN THE FIELD OF EXAMINING THE RELA13  
TIONSHIP BETWEEN ELECTROMAGNETIC  
14 FIELDS AND HUMAN HEALTH.

15 “(a) IN GENERAL.—The Secretary, acting through  
16 the Director of the National Institutes of Health, shall es17  
tablish a program to enter into contracts with qualified  
18 individuals under which such individuals agree to conduct  
19 research in the field of examining the relationship between  
20 electromagnetic fields and human health, in consideration  
21 of the Federal Government agreeing to repay, for each  
22 year of service conducting such research, not more than  
23 \$35,000 of the principal and interest of the graduate edu  
24 cational loans of such individuals.

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1 “(b) APPLICATION OF PROVISIONS.—The provisions  
2 of sections 338B, 338C, and 338E shall, except as incon3  
sistent with subsection (a) of this section, apply to the pro4  
gram established under subsection (a) to the same extent  
5 and in the same manner as such provisions apply to the  
6 National Health Service Corps Loan Repayment Program  
7 established in subpart III of part D of title III.

8 “© DEFINITION.—To be qualified to receive a con9  
tract under subsection (a), an individual shall agree to  
10 conduct the research at a public or private nonprofit enti11  
ty.

12 “(d) AUTHORIZATION OF APPROPRIATIONS.—To  
13 carry out this section, there is authorized to be appro14  
priated \$10,000,000 for fiscal year 2013 and each subse15  
quent fiscal year.”.

16 SEC. 6. CLARIFICATION OF LOCAL CONTROL RELATED TO  
17 HUMAN HEALTH.

18 Section 332©(7)(B)(iv) of the Communications Act  
19 of 1934 (47 U.S.C. 332©(7)(B)(iv)) is amended by strik20  
ing “radio frequency emissions” and inserting “radio21  
frequency emissions, excluding the adverse human health  
22 effects of emissions of radiofrequency electromagnetic  
23 fields,”.

24 SEC. 7. DEFINITIONS.

25 For purposes of this Act:

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1 (1) ADMINISTRATOR.—The term “Adminis2  
trator” means the Administrator of the Environ3  
mental Protection Agency.  
4 (2) COMMISSIONER.—The “Commissioner”  
5 means the Commissioner of Food and Drugs.  
6 (3) DIRECTOR.—The term “Director” means  
7 the Director of the National Institute of Environ8  
mental Health Sciences.  
9 (4) MOBILE COMMUNICATION DEVICE.—The  
10 term “mobile communication device” means a device  
11 defined as a portable device in section 2.1093(b) of  
12 title 47, Code of Federal Regulations, and any  
13 transmissions from such device.  
14 (5) SECRETARY.—The term “Secretary” means  
15 the Secretary of Health and Human Services.

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February 4, 2013

Office of the Secretary

Federal Communications Commission

Washington, DC 20554

Re: Specific Absorption Rate Missing Science, Smart Meters and Advanced Wireless Services

Dear Sir/Madam:

Health Canada's Safety Code 6, the FCC and international governing bodies all use the same science standards for limits of human exposure electromagnetic and radio frequencies (EMF/RF).

Unfortunately, science standards and the Safety Code admit to missing the link between the frequencies and adverse health effects.

Please take note that the FCC didn't consider the science linking EMF/RF to adverse health effects was reported by the Canadian Electrical Professionals through Health Canada and by expert witness at the request of the Canadian Parliament's Standing Committee on Health.

Following the reporting of the mechanisms linking the frequencies to adverse health effects, the dangers of wireless frequencies is lectured in the United States for education credits required for ongoing medical licensing. The medical education program is applicable in all 50 states and literally changes the scope of medical diagnosis. Wireless environments have to be considered in medical diagnosis or there is a real risk of misdiagnosis.

The FCC as well as other governing bodies adopted the Specific Absorption Rate to determine the limits of human exposure.

THIS PICTURE SHOWS HOW THE SPECIFIC ABSORPTION RATE IS USED TO DETERMINE EXPOSURE LIMITS. THE RED ARROW SHOWS THE POSITION OF THE CELL PHONE AND THE WHITE ARROW HIGHLIGHTS THE HOLE IN THE TEST MODEL WHERE LIQUID THAT SIMULATES TISSUE IS POURED. THE BLACK WIRE INSIDE THE HEAD IS THE TEMPERATURE PROBE MEASURING FOR HEAT EFFECT. THIS IS THE SCIENCE USED GLOBALLY AND BECAUSE SMART METERS AND/OR WIRELESS COMPUTERS AREN'T HELD AGAINST THE HEAD LIKE A CELL PHONE, 24/7 EXPOSURE IS CONSIDERED SAFE FOR EVERYONE INCLUDING CHILDREN AND PREGNANT WOMEN.

The Specific Absorption Rate calculation only considered the end use device. It didn't include smart meter routers, relays, tower antennas and other wireless infrastructure radiating large geographical areas to communicate with wireless devices. The Specific Absorption Rate didn't incorporate the bio electricity of humans, their vulnerability and left out millions of frequencies in a frequency equation. When you incorporate the errors or omissions in safety, you have causality, biological plausibility and reproducibility that links the frequencies to adverse health effects.

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Directly below is a utility's diagram of the wireless smart grid showing what they didn't incorporate into the Specific Absorption Rate for safety.

"Bringing the Invisible to Light Since 1979

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PACEMAKER RECIPIENTS ARE TOLD TO STAY OUT OF ELECTROMAGNETIC FIELDS: HOWEVER, THE AREA COVERAGE WILL TAKE THE EMFS DIRECTLY INTO THEIR HOMES. THAT IS A SEPARATE SUE FROM UTILITIES USING UNQUALIFIED INSTALLERS WITH A FEW RS TRAINING TO SWAP ELECTRICAL METERS. CHANGING A METER UNDER LOAD ON A METER BASE THAT HAS NEVER BEEN SERVICED IS VERY DANGEROUS AND FURTHER COMPROMISES BUILDING OWNERS' PROPERTIES. IN THE CASE OF SMART METER FIRES, UTILITIES BLAME HOME OWNERS FOR THE FIRES BECAUSE THE HOMEOWNER OWNS THE METER BASE WHEN THE ELECTRICAL REALITY IS THE METER SWAP ACTUALLY CAUSED THE FIRE. BELOW IS THE ADDRESS FOR TESTIMONY PROVIDED TO THE TEXAS SENATE COMMITTEE ON SMART METERS.

[Http://www.thermoguy.com/pdfs/Texas Senate Committee Meeting on Smart Meters.pdf](http://www.thermoguy.com/pdfs/Texas%20Senate%20Committee%20Meeting%20on%20Smart%20Meters.pdf)

Municipalities are presently absorbing costs and liabilities that are not theirs' to absorb. The FCC, PUC and utility companies are not incorporating health, building or infrastructure costs and haven't even considered the agricultural, forestry, groundwater, fish spawning, economic or ecosystem damage consequences. The frequencies are illegal as applied and the peer-reviewed science substantiating that spans many sciences; electricity, engineering, biology, chemistry and is taught in continuing medical education programs.

Our electrical grid is 60 Hz frequencies and is compatible with our 60 Hz appliances and devices. The radio frequencies at 900 million Hz are not electrically compatible with any biological frequencies. Cell tower construction is exceeding land use with antenna frequencies blanketing municipalities and adversely affecting other land use as well as infrastructure.

Residents have valid concerns for themselves and their building investments. The complete science has not been communicated fully to municipalities. My opinion is not singular. The margin of error is zero. The peer-reviewed science qualifying the EMF interactions is called "electricity." To generate electricity requires an electromagnetic field (EMF) and a conductor. With current FCC standards and utility applications, entire areas are being blanketed with EMFs and human/animal, vegetable/mineral kingdom- almost everyone and everything is a conductor.

Health Canada is presently revising Safety Code 6 and has retained the Royal Society as an independent body. The United States has a draft bill H.R. 6358 in which congressional members are asking specifically for a revision of the scientifically deficient Specific Absorption Rate test. I recommend the same approach be applied.

Sincerely,

Curtis Bennett

Chief Science Officer

Interprovincial Journeyman Electrician(Red Seal)

Building Construction Engineering Technologist

Adjunct Faculty for IHF & GEDI

33 Year Advanced Thermography Background

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\*End of Complaint\*

**Utilities' Response:**

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Investigator's Comments and Disposition:

12/16

Emailed to the Phoenix ACC office for docketing.

FILE CLOSED.

\*End of Comments\*

Date Completed: 12/16/2014

Opinion No. 2014 - 120068

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